5.0							
etaPriority		Document Ref	Section Ref	Comment	Note(s)	PSE54	PSE52
egment De	velopment Tools SRS (an '*' in the section re	ference indicates that the item refer	s to all subsidiary	,			
				modifications noted in 5.0 beta			
2	Additional RT Descriptors	Segment Development Tools	4.1.*	development tools build list			
				currently provided, no changes			
-	Integration Directory & Notes	Segment Development Tools	4.2 & 4.2.1	required			
				currently provided, no changes			
-	VSOutput	Segment Development Tools	4.2.2	required			
				Tools will be provided for current			
				reference platforms (Solaris 7, NT 4.0,			
				and HP 10.20). DISA will revise			
				operating system versions when kernel			
				development changes operating			
2	General Segmentation Tool Requirements	Segment Development Tools	5.1.1	system version.			
-	FindServices Tool	Segment Development Tools	5.1.2	DISA will not provide at this time			
-	FindUnits Tool	Segment Development Tools	5.1.3	DISA will not provide at this time			
				modifications noted in 5.0 beta			
2	VerifyRTSeg Helper Function	Segment Development Tools	5.1.4	development tools build list			
				currently provided, no changes			
2	VerifySeg Tool	Segment Development Tools	5.1.5	required			
-	CkRTCompliance	Segment Development Tools	5.1.6	DISA will not provide at this time			
				currently provided, no changes			
-	ChkCompliance Tool	Segment Development Tools	5.1.7	required			
				currently provided, no changes			
-	TimeStamp Tool	Segment Development Tools	5.1.8	required			
				currently provided, no changes			
-	MakeInstall	Segment Development Tools	5.1.9	required			
-	CanInstallOnIE	Segment Development Tools	5.1.10	DISA will not provide at this time	10		
				currently provided, no changes			
-	CanInstallTool	Segment Development Tools	5.1.11	required			
							\perp
tegration T	ools SRS (an '*' in the section reference indi	cates that the item refers to all subs	idiary items as we	1	,		
				DISA is considering, will not be			
-	RT Integration Platform	Integration Tools		provided in 5.0 beta	1		
2	General Requirements for Integration Tools	Integration Tools	4.1				
				DISA is considering, will not be			
=	RT Kernel & Build Tool Installer	Integration Tools	4.2.1	provided in 5.0 beta	1		
				DISA is considering, will not be			
_	RT COE Segment Installer	Integration Tools	4.2.2.*	provided in 5.0 beta	1,2		
2				modifications noted in 5.0 beta			
	Segment Dependency Database	Integration Tools	4.2.2.4	integration Tools Build List			
				modifications noted in 5.0 beta			
3	Configuration Analysis Tool	Integration Tools	4.3.1.*	integration Tools Build List	14		
_				modifications noted in 5.0 beta			
2	RT COE Segment Selector	Integration Tools	4.3.1.1	integration Tools Build List	11		

5.0 betaPriority	Service / Capability	Document Ref	Section Ref	Comment	Note(s)	PSE54	PSE52
				DISA believes this tool is no longer			
				needed. See notes in 5.0 beta			
-	RT Kernel Services Selector	Integration Tools	4.3.1.2	integration tools build list.	3,11		
				modifications noted in 5.0 beta			
2	RTOS Functionality Selector	Integration Tools	4.3.1.3	integration Tools Build List	4,11		
				modifications noted in 5.0 beta			
2	RTConfig File	Integration Tools	4.3.2	integration Tools Build List			-
ernel Servic	ces SRS (an '*' in the section reference indicate	es that the item refers to all subsidiary	items as well)	·		1	
				Kernel will be repackaged into required			
1	Repackage Kernel Services	Kernel Services-Runtime		and optional components.	mcvittie		
				DISA does not currently envision		2/2/2000 base lecon. Issue	d
				breaking down the native O/S by	should re	main open for	
				services and allowing service	further di	scussion.	
				dependencies on O/S fragments.			
			discussions	DISA will revisit this issue after the 5.0			
-	Packaged bundles for other O/S services	Kernel Services-Runtime	with RT group		3		
				modifications noted in 5.0 beta kernel			
1	Command Line Parameters	Kernel Services-Runtime	3.2	services build list			
				No software requested. Clarification of			
	Capability Requirements for Mandatory RT DII			DISA position provided in 5.0 beta			
-	COE Kernel Services	Kernel Services-Runtime	3.3	kernel services build list			
				No longer part of the kernel			
-	Native System Administration Tools Component		3.4.1.1	architecture			
-	Log File Management Component	Kernel Services-System Admin	3.4.1.2	Will be part of post 5.0 beta			
1	Service Component Interface	Kernel Services-System Admin	3.4.1.3.1	see notes under 3.2			
				modifications noted in 5.0 beta kernel			
1	System Shutdown	Kernel Services - System Admin	3.4.1.3.2.*	services build list		X	[Note 1
				modifications noted in 5.0 beta kernel			
1	System Reboot	Kernel Services - System Admin	3.4.1.3.3.*	services build list		X	[Note 1
				modifications noted in 5.0 beta kernel			
1	System Fast Reboot	Kernel Services - System Admin	3.4.1.3.4.*	services build list		X	[Note 1:
1	Service Component Interface	Kernel Services - System Admin	3.4.1.4.1	see notes under 3.2			
				modifications noted in 5.0 beta kernel			
1	Set Local Time	Kernel Services - System Admin	3.4.1.4.2.*	services build list		X	[Note 13
-	Time Sources	Kernel Services - System Admin	3.4.1.4.3	No software requested for 5.0 beta			
-	Disk Management	Kernel Services - System Admin	3.4.1.5.1	No software requested in 5.0 beta	5		
-	Domain Name Service - initialize & configure	Kernel Services - System Admin	3.4.1.5.2	No software requested in 5.0 beta	5		
-	Edit System Host Table	Kernel Services - System Admin	3.4.1.5.3	No software requested in 5.0 beta	5		1
-	Configure Network Information Service	Kernel Services - System Admin	3.4.1.5.4	No software requested in 5.0 beta	5		
-	Configure Network Routing	Kernel Services - System Admin	3.4.1.5.5	No software requested in 5.0 beta	5		
-	Audit Logging	Kernel Services-Security	3.4.2.1	No software requested in 5.0 beta	5		
-	Set/Display Security Level	Kernel Services-Security	3.4.2.2	No longer a kernel service	7		<u> </u>
_	Configure Security	Kernel Services-Security		modify security settings to conform to DII COE requirements	6		

5.0 betaPriority	Service / Capability	December 1 Dec	Contley D. (Comment	Netst	DOE54	DOTTO
betaPriority	1 /	Document Ref	Section Ref			PSE54	PSE52
-	Login Control	Kernel Services-Security		3 strikes & deadman	6		
				change password, and password			
-	Password Management	Kernel Services-Security		validation	6		+
				DISA believes these to be O/S			
				functions or services no longer			
				provided with the DII COE 5.x kernel.			
	Draces Management Table	Kernel Services-Runtime	3.4.3.1.1	See 5.0 beta kernel services build list for more information.			
<u>-</u> 1	Process Management Table Start Boot Processes	Kernel Services-Runtime Kernel Services-Runtime	3.4.3.1.1	for more information.		X	
ļ ,	Start Boot Processes	Remei Services-Runtime	3.4.3.1.2.	DIOA haliawaa dhaaa ta ha O/O			+
				DISA believes these to be O/S			
				functions or services no longer provided with the DII COE 5.x kernel.			
				See 5.0 beta kernel services build list			
_	Process Manager	Kernel Services-Runtime	3.4.3.1.3	for more information.	5,7		
	1 Toccss Manager	Remer dervices Runtime	0.4.0.1.0	modifications noted in 5.0 beta kernel	3,1		+
1	Abort Single Process	Kernel Services-Runtime	3.4.3.1.4.*	services build list		Х	
•	7 DOTT ORIGINATION TO THE PROPERTY OF THE PROP	Tremer dervices realitine	0.4.0.1.4.	modifications noted in 5.0 beta kernel			+
1	Abort Multiple Processes	Kernel Services-Runtime	3.4.3.1.5	services build list		X	
•	7 ISSIC Manages 1 10000000	Training Convices Training	0.1.0.1.0	No longer part of the kernel			+
_	Process Administration Management	Kernel Services-Runtime	3.4.3.1.6	architecture	7		
	- recess running and management	Training Convious Training	011101110	No longer part of the kernel			+
_	Process Launch	Kernel Services-Runtime	3.4.3.1.7.*	architecture	7	Х	
				Not currently part of the kernel			
				architecture. DISA will consider post			
-	Restart Boot Process	Kernel Services-Runtime		5.0 beta			
-	Request Response	Kernel Services-User Interface Tools	3.4.3.2.1	Will be part of post 5.0 beta	5		
-	Display Message	Kernel Services-User Interface Tools	3.4.3.2.2	Will be part of post 5.0 beta	5		
-	Prompt to User	Kernel Services-User Interface Tools	3.4.3.2.3	Will be part of post 5.0 beta	5		
-	Prompt for Passwords	Kernel Services-User Interface Tools	3.4.3.2.4	Will be part of post 5.0 beta	5		
-	Profile Creation	Kernel Services - A&P	3.4.3.3.1		5		
-	Profile Switch	Kernel Services - A&P	3.4.3.3.2		5		
-	Profile Editing	Kernel Services - A&P	3.4.3.3.3		5		
-	Profiled Permissions (features)	Kernel Services - A&P	3.4.3.3.4		5		
				No longer part of the kernel			
-	Default Profile Path	Kernel Services - A&P	3.4.3.3.5	architecture	5		
-	Profile Loading	Kernel Services - A&P	3.4.3.3.6		5	1	
-	User Login	Kernel Services - A&P	3.4.3.3.7		5		
-	Profile User List	Kernel Services - A&P	3.4.3.3.8		5,9	1	
-	User Profile List	Kernel Services - A&P	3.4.3.3.9		5	1	
-	User Segment List	Kernel Services - A&P	3.4.3.3.10		5,9	-	+
-	Profile Segment List	Kernel Services - A&P	3.4.3.3.11		5,9	1	+
-	Segment Profiles List	Kernel Services - A&P	3.4.3.3.12		5,9	1	+
-	Segment Users List	Kernel Services - A&P	3.4.3.3.13		5,9		+
-	Profile Error Notification	Kernel Services - A&P Kernel Services - A&P	3.4.3.3.14 3.4.3.3.15		5 5.9		

5.0 betaPriority	Service / Capability	Document Ref	Section Ref	Comment	Note(s)	PSE54	PSE52
				No longer part of the kernel			
-	Create Session	Kernel Services - A&P	3.4.3.3.16	architecture	7		
				No longer part of the kernel			
-	Start Sessions	Kernel Services - A&P	3.4.3.3.17	architecture	7		
				No longer part of the kernel			
-	Close Session	Kernel Services - A&P	3.4.3.3.18	architecture	7		
				No longer part of the kernel			
-	Close User's Session	Kernel Services - A&P	3.4.3.3.19	architecture	7		
-	Checking Sessions	Kernel Services - A&P	3.4.3.3.20		7		
-	User Accounts	Kernel Services - A&P	3.4.3.3.21		5		
-	Default Display Screen	Kernel Services - A&P	3.4.3.3.22		5		
-	Select Display Font	Kernel Services - A&P	3.4.3.3.23		5		
-	Segment Installer	Kernel Services - Installation	3.4.3.4.1	placeholder for ability to install segments on target platform in a later phase (COEInstaller)	5		
1	Real-time Clock Services	Kernel Services - Time	3.4.3.5.1	DII COE does not currently provide any APIs in this area. The current or next release of lynxOS will/does provide POSIX compliant APIs for these services. As such, DII COE will use these POSIX compliant services directly.	8,12	X	[Note 13
1	Resolution and accuracy	Kernel Services - Time	3.4.3.5.2.*	DII COE does not currently provide any APIs in this area. The current or next release of lynxOS will/does provide POSIX compliant APIs for these services. As such, DII COE will use these POSIX compliant services directly.	8,12	×	[Note 13
1	Clock Synchronization	Kernel Services - Time	3.4.3.5.3	DII COE does not currently provide any APIs in this area. The current or next release of lynxOS will/does provide POSIX compliant APIs for these services. As such, DII COE will use these POSIX compliant services directly.	8,12	X	[Note 13
1	Coexistence with Non-Real-time Clocks	Kernel Services - Time	3.4.3.5.4	DII COE does not currently provide any APIs in this area. The current or next release of lynxOS will/does provide POSIX compliant APIs for these services. As such, DII COE will use these POSIX compliant services directly.	8,12	×	[Note 13

5.0							
betaPriority	Service / Capability	Document Ref	Section Ref	Comment	Note(s)	PSE54	PSE52
				DII COE does not currently provide any APIs in this area. The current or next release of lynxOS will/does provide POSIX compliant APIs for these services. As such, DII COE will use these POSIX compliant services			
1	Timers	Kernel Services - Time	3.4.3.5.5	directly.	8,12	Х	[Note 13]
1	Actions	Kernel Services - Time	3.4.3.5.6	Currently under investigation	8,12	Х	[Note 13]
_	Hardware Support	Kernel Services - Time	3.4.3.5.7	not part of 5.0 beta	-,		[
NOTES						1	
(all)	Attempts have been made to identify and include all requirements. If requirements are not mentioned it is assumed that the capability will not be provided in the 5.0 beta deliver						
1	DISA direction is not to build an integration platform, RT TWG direction is not to install software on target. Only remaining alternative is to have all RT segments delivered as tool kits with no DISA integration support.						
2	Unclear what the RT COE Segment Installer would do if we support neither installation on the target, nor installation on an integration machine (see note #1)						
3	kernel services will likely be repackaged into a number of smaller units. Dependency must be on one of these units, not on the low level shared library						
4	Definition may need to be expanded to include fundamental components of the O/S which are NOT POSIX UoF - e.g., TCP. Unclear whether DISA will support this extension.						
5	Requirements listed as being under development						
6	Not listed in current requirements documents, but must be provided if RT O/S supports						
7	The corresponding functionality has been deprecated in DII COE 4.x and will likely not be provided in DII COE 5.x releases						
8	Limited to local machine configuration only. 5.x kernel will not provide cross machine configuration/synchronization capabilities						
9	Not currently provided by DII COE as a callable API. Information is available in CDS (or equivalent)						
10	Priority level is unclear since underlying service may not be provided (see note #1)						
11	Ability to derive required services is based solely on the information provided by each segment in their SegInfo file and stored						
12	OS vendor is responsible for all POSIX compliance issues. DISA will not provide POSIX APIs if the vendor does not.						
	DISA commits to building and testing a Real-time DII COE Kernel to execute in a PSE54 environment. DISA design guidance is to design these						
13	functions to also work in a PSE52 environment. DISA will not verify (test) proper operation in a PSE52 environment.						
14	DISA may not have the configuration analysis too	l available by the March 27, 2000 o	delivery of the Beta.	Will be available by next release.			